1876

REGISTER

OF THE

MARYLAND

Agricultural College,

FOR

Session Ending June 27th, 1876.

BALTIMORE:
PRINTED BY JOHN MURPHY & CO.
PUBLISHERS, BOOKSELLERS, PRINTERS AND STATIONERS,
182 BALTIMORE STREET.
1876.

Trustees.

Representing the State Ex Officio:

HON. JOHN LEE CARROLL,
Governor of Maryland,
PRESIDENT.

HON. DANIEL FIELDS,
President of the Senate.

HON. LEWIS C. SMITH,
Speaker of the House of Delegates.

PROF. M. A. NEWELL,
Principal of State Normal School.

Representing the Stockholders:

HON. JAMES T. EARLE,
MAJOR J. F. LEE,
E. WHITMAN, ESQ.,
ALLEN DODGE, ESQ.,
JUDGE W. H. TUCK,
CHAS. P. CALVERT, ESQ.,
GEN. E. L. F. HARDCASTLE.

Visitors.

Hon. E. J. Henkle.....*U. S. House of Representatives.*
Mr. J. H. McHenry.....*Pikesville, Md.*
Mr. James L. McLean.....*Baltimore, Md.*
Hon. Henry Snyder.....*Baltimore, Md.*
Hon. James A. Bond.....*Prince Frederick, Md.*
Hon. Daniel Field.....*Denton, Md.*
Hon. J. K. Longwell.....*Westminster, Md.*
Hon. C. Mackall, M. D.....*Elkton, Md.*
Major Wm. B. Mathews.....*Port Tobacco, Md.*
Hon. Francis P. Phelps.....*Cambridge, Md.*
Hon. E. H. Steiner.....*Frederick, Md.*
Hon. John Daily.....*Oakland, Md.*
Henry D. Farnandis, Esq.....*Bel Air, Md.*
Hon. A. P. Gorman.....*Laurel, Md.*
Col. Edward Wilkins.....*Chestertown, Md.*
Hon. Nicholas Brewer, M. D.....*Rockville, Md.*
Hon. De Witton Snowden, M. D.....*Laurel, Md.*
Hon. B. F. Ford.....*Centerville, Md.*
Hon. George R. Dennis.....*U. S. Senate.*
Hon. J. F. Dent.....*Leonardtown, Md.*
Hon. Edward Lloyd.....*Easton, Md.*
Hon. Z. T. Claggett.....*Hagerstown, Md.*
Hon. Humphrey Humphreys.....*Salisbury, Md.*
Hon. William J. Aydelotte.....*Snow Hill, Md.*
Hon. T. G. McCullough.....*Cumberland, Md.*

Faculty.

WILLIAM H. PARKER, PRESIDENT,

Professor of Mathematics.

NICHOLAS B. WORTHINGTON, A. M.,

Professor of English Language and Literature.

THOMAS M. JONES,

Professor of Agriculture, and Registrar.

R. E. NELSON,

Professor of Physics and Applied Mathematics, and Commandant of Cadets.

JOSEPH C. CLARKSON, M. D.,

Professor of Chemistry and Natural Science.

THOMAS F. SNYDER,

Assistant Professor of Mathematics, and Instructor of Military Tactics.

Military Organization.

PROF. R. E. NELSON, *Commandant Cadets.*

THOMAS, T.....*Cadet Captain.*
THOMAS, G..... " *1st Lieut.*
WORTHINGTON, J. L..... " *2nd Lieut.*
COOK, E. S..... " *3rd Lieut.*

DOWNMAN, J. B..... " *1st Serg't.*
HORN, M. L..... " *2nd Serg't.*
ROBINSON, H..... " *3rd Serg't.*

WHITELOCK, W..... " *1st Corp'l.*
GARLAND, J. S..... " *2nd Corp'l.*

Staff.

BLAIR, W. J.....*Cadet Adjutant.*
TAYLOR JOHN..... " *Quarter Master Serg't.*

Catalogue of Students,

1875-76.

Name.	Parent or Guardian.	Address.
Baker, Wm	*Mrs. M. A. Baker*	Washington, D. C.
Bellinger, O. H	*C. B. Bellinger*	Portland, Oregon.
Bicknell, J. D	*C. B. Bicknell*	Philadelphia, Penn.
Bishop, L. C	*Mrs. Ann Bishop*	Springfield, Ohio.
Blair, W. J	*Alexander Blair*	Orangeville, Md.
Blake, R. B	*Mrs. A. E. Blake*	Shufordsville, N. C.
Cason, T. J	*Hon. F. J. Cason*	Washington, D. C.
Cason, Walter	*Hon. F. J. Cason*	Washington, D. C.
Catlett, J. M., Jr	*Jas. M. Catlett*	Catlett Station, Va.
Claude, Herbert	*Dennis Claude*	Annapolis, Md.
Clarke, Herman	*T. C. Clarke*	Philadelphia, Penn.
Chance, T. F	*Telghman Chance*	Easton, Md.
Cook, F. M	*Mrs. A. B. Cook*	New Orleans, La.
Cook, E. S	*L. M. E. Cook*	Washington, D. C.
Cook, Jay	*A. D. Cook*	Washington, D. C.
Conness, D. B	*Jno. Conness*	Matapan, Mass.
Curtis, E. L	*E. J. Curtis*	Boise City, Idaho.
Craven, Macdonough	*Thos. T. Craven*	Geneva, N. Y.
DeLaney, John Pope	*Dr. Geo. N. Dox*	Geneva, N. Y.
Dean, Charles	*J. B. Dean*	Baltimore, Md.
Doty, G. H	*Mrs. J. E. Henderson*	Plainfield, N. J.
Downman, J. B	*R. W. Downman*	Washington, D. C.
Duvall, Marius	*Dr. M. Duvall*	Baltimore, Md.
Dyer, S. A	*Mrs. B. Dyer*	Washington, D. C.
Edelin, P. G	*Mrs. Ellen Edelin*	St. Mary's, Md.
Emack, E. G	*E. G. Emack*	Beltsville, Md.
Emmet, LeRoy Wm	*W. J. Emmet*	Pelham, N. Y.
Emory E. H	*Blanch Emory, Esq*	Centreville, Md.

Name.	Parent or Guardian.	Address.
Estill, A. E.	*Capt. W. J. Estill*	Petersburg, Ill.
Eyre, M. K.	*Wilson Eyre*	Newport, R. I.
Finley, B. L.	*T. H. Finley*	Washington, D. C.
Garland, J. S.	*J. S. Garland*	Washington, D. C.
Gilliam Donnell.	*Maj. H. A. Gilliam*	Edenton, N. C.
Guest, James Alden.	*Commodore Jno. Guest*	Beltsville, Md.
Guest John.	*Commodore Jno. Guest*	Beltsville, Md.
Habersham, Harry S.	*A. W. Habersham*	St. Dennis P. O., Md.
Henkle, E. J.	*Hon. E. J. Henkle*	Brooklyn, Md.
Hewes, M. L.	*Jas. E. Hewes*	Hooversville, Md.
Holmes, I. D.	*John L. Holmes*	Wilmington, N. C.
Holston, Robert.	*Mrs. J. L. Holston*	Hyattsville, Md.
Holston, A.	*Mrs. J. L. Holston*	Hyattsville, Md.
Horn, M. L.	*Benj. Horn*	Baltimore, Md.
Horn, J. P.	*Benj. Horn*	Baltimore, Md.
Jackson, J. M.	*J. M. Jackson*	Sligo, Md.
Jones, Pembroke.	*Mrs. P. K. Dickinson*	Wilmington, N. C.
Jones, J. Paul	*Reuben Jones*	Catonsville, Md.
Jones, William.	*William Jones, Esq.*	Poolsville, Md.
Johnson, James W.	*A. M. Johnson, Esq.*	Chattanooga, Tenn.
Macomb, A. C.	*Col. A. C. Macomb*	Rock Island, Ill.
Marchand, J. T.	*Mrs. M. D. Marchand*	Annapolis, Md.
Mercer, Jno. F.	*F. S. Mercer*	Washington, D. C.
Morsell, B. F.	*B. F. Morsell*	Washington, D, C.
Nichols, A.	*G. S. Nichols*	New York, N. Y.
Outram, T. S.	*Jno. Outram*	Easton, Md.
Parker, F. A.	*Commod'e F.A. Parker*	Annapolis, Md.
Patterson, S. A. W.	*Commodore Patterson*	Washington, D. C.
Reamer, M. M.	*Saml. R. Fisher*	Philadelphia, Penn.
Rice, F. M.	*Frederick Rice*	Baltimore, Md.
Robinson, H.	*Mrs. Robinson*	San Francisco, Cal.
Robinson, W.	*Mrs. R. B. Robinson*	Washington, D. C.

Name.	Parent or Guardian.	Address.
Simpson, Edward	*Capt. E. C. Simpson*	Newport, R. I.
Sothoron, J. F	*J. H. Sothoron*	Charlotte Hall, Md.
Taylor, John	*John S. Taylor*	Richmond, Ky.
Thomas, T. H	*Mrs. Eleanor Thomas*	Chaptico, St. Mary's, Md.
Thomas, W. H	*Mrs. Eleanor Thomas*	Chaptico, St. Mary's, Md.
Thomas George	*Mrs. Eleanor Thomas*	Chaptico, St. Mary's, Md.
Thompson, P. W	*M. Thompson, Esq*	Washington, D. C.
Truxtun, Wm	*Capt. W. F. Truxtun*	Norfolk, Va.
Vance, Z. B., Jr	*Hon. Z. B. Vance*	Charlotte, N. C.
White, James	*Archibald White*	Brightwood, D. C.
Whitelock, Wm	*R. G. Whitelock*	Baltimore, Md.
Williams, Edward	*Hon. Wm. Williams*	Washington, D. C.
Williams, Eugene	*Hon. Wm. Williams*	Washington, D. C.
Wilson, H	*Rev. Franklin Wilson*	Baltimore, Md.
Winchester, J. P	*J. M. Winchester*	Baltimore, Md.
Worthington, J. L	*Prof. N. B. Worthington*	Agr. College, Md.

Recapitulation.

Maryland,	32
District of Columbia,	17
North Carolina,	5
New York,	4
Pennsylvania,	3
Virginia,	2
New Jersey,	2
Illinois,	2
California,	1
Idaho,	1
Kentucky,	1
Louisiana,	1
Massachusetts,	1
Ohio,	1
Oregon,	1
Rhode Island,	1
Tennessee,	1
Total,	76

Graduates of 1875.

JOHN B. GRAY, B. S.
CHARLES E. LERCH, B. S.
F. B. HYDE, B. S.
LORION MILLER, B. S.

Graduates of 1876.

W. J. BLAIR, B. S.
JOHN L. WORTHINGTON, B. S.
T. H. THOMAS, B. S.

Degrees Conferred in Course.

MR. R. SAUNDERS HENRY, A. M.
REV. OLIVER C. MILLER, A. M.

PART FIRST.

THE

Maryland Agricultural College.

THE

Maryland Agricultural College

Is situated in Prince George County, nine miles from Washington, twenty-eight from Baltimore, and three-fourths of a mile from College Station, on the Washington Branch, Baltimore and Ohio Railroad. The College building, which is spacious and substantial, is in thorough repair, has fine chambers, is well ventilated and warmed, lighted throughout with gas, and combines every requisite of a comfortable and pleasant home. The location, which experience has proved eminently healthful, is on the edge of a handsome forest growth, and commands a fine view of the picturesque country around it.

Seventeen trains (seven from Washington, ten from Baltimore) stop at the College Station every day, thus affording convenient and speedy access to the Institution.

N. B. Persons coming to the College are notified to stop at "College Station," on the Washington and Baltimore Railroad, whence conveyance will be furnished to the College.

Course of Instruction.

The branches of study taught at the College are grouped under the following departments:

1. Civil Engineering and Astronomy.
2. English Literature, Moral Philosophy, and History.
3. Pure Mathematics.
4. Physics and Applied Mathematics.
5. Agriculture, Architecture and Drawing.
6. Chemistry and Natural History.
7. Ancient and Modern Languages.

The Course of Study embraces the following subjects:

Department of Civil Engineering and Astronomy.

ASTRONOMY.—Descriptive and Practical.
PHYSICAL GEOGRAPHY.—Maury and Guizot, with Maps.
CIVIL ENGINEERING.—Drawing, Materials, Bridges, Railroads, Tunnels, Canals, &c., &c., Running Lines and Curves for Common Roads and Railroads, Levelling, &c., &c. Explanation of Geodetical Surveys; practical work in Surveying and Plotting, &c., &c.
LECTURES.

TEXT-BOOKS.

Lockyer's Astronomy; Herschel's Outlines; Chauvenet's Practical Astronomy; Loomis' Surveying; Gillespie's Surveying; Mahan's Civil Engineering; Rankine's Civil Engineering.

Department of English, History and Mental Science.

ENGLISH.—The History, Usage, and Grammatical Structure of the English Language; History of English Literature; Rhetoric; Composition; Elocution.

HISTORY.—History of Greece, Rome, England, United States; Outlines of History; History of European Civilization.

MENTAL SCIENCE.—Mental and Moral Science; Logic; History of Philosophy.

LAW.—Commentaries on Constitution of United States; Constitution of Maryland.

BOOK-KEEPING.

TEXT-BOOKS.

ENGLISH.—Abbott & Seeley's English Lessons; Hadley's Brief History of the English Language; Taine's English Literature; Hart's Composition and Rhetoric.

HISTORY.—Freeman's General Sketch; Hume's England; Smith's Greece; Liddell's Rome; Guizot's European Civilization.

MENTAL SCIENCE.—Upham's Mental Philosophy; Seelye's Schwayler's History of Philosophy; Schuyler's Logic; Haven's Moral Philosophy.

LAW.—Story on the Constitution; Constitution of Maryland.

BOOK-KEEPING.—Hanaford & Payson.

Department of Mathematics.

ALGEBRA.—Reduction and solution of Equations of the first and second degrees; Proportions and Progressions; nature and construction of Logarithms; and the theory of Equations.

GEOMETRY.—Plane and Solid.

TRIGONOMETRY.—Analytical investigation of Trigonometrical Formulas, and their application to the Solution of all the cases of Plane and Spherical Trigonometry; the Construction and Use of Trigonometrical Tables.

APPLICATION OF ALGEBRA AND TRIGONOMETRY.—Mensuration of Planes and Solids.

DESCRIPTIVE GEOMETRY.—The graphic illustration and solution of problems in Solid Geometry; Projections of the Sphere.

ANALYTICAL GEOMETRY.—Equations of the Right Line, Plane, and Conic Sections; principal problems relating to the Cylinder, Cone, Sphere and Spheroids.

LECTURES on Shades, Shadows and Perspective.

TEXT-BOOKS.

Loomis' Algebra; Ray's Higher Algebra; Todhunter's Algebra; Schuyler's Geometry; Loomis' Geometry; Chauvenet's Geometry; Loomis' Trigonometry and Mensuration; Chauvenet's Trigonometry; Church's Descriptive Geometry; Loomis' Analytical Geometry; Todhunter's Conic Sections.

Department of Physics and Applied Mathematics.

THE DIFFERENTIAL AND INTEGRAL CALCULUS.—The principles of the Differential Calculus, including Taylor's Theorem, applications to Problems of Maxima and Minima, and the tracing of Curves; the methods of Integration, and the application of the Integral Calculus to Areas, Surfaces and Volumes, and to the finding of Centres of Gravity and Moments of Inertia, and to the simpler cases of Differential Equations.

MECHANICS.—Statics; Dynamics.

HYDROSTATICS.—Mechanical properties of Fluids; Specific Gravity, &c., &c.

ACOUSTICS.—The production and propagation of Sound; modes of Vibration, &c., &c.

OPTICS.—Lenses, Vision and Optical Instruments; Spectrum Analysis; Color, &c., &c.

ELECTRICITY AND MAGNETISM.—Magnetism; Voltaic Electricity, &c., &c.

HEAT.—Theories of Heat; Sources of Heat; [illegible]nts used for the Measurement of H[illegible]; Thermo-dy[illegible].

TEXT-BOOKS.

Loomis' Differential and Integral Calculus; Courteny's Calculus; Buckingham's Calculus; Wells' Natural Philosophy; Ganot's Natural Philosophy; Cambridge (England) Course of Elementary Natural Philosophy; Todhunter's Mechanics for Beginners; Rankin's Applied Mathematics; Smith's Hydrostatics; Bartlett's Acoustics and Optics; Jenkins' Electricity and Magnetism; Maxwell's Theory of Heat; Peck's Mechanics.

Department of Agriculture, Architecture and Drawing.

AGRICULTURE.—General Agriculture; Civil Engineering, applied to Farm Roads, Bridges, Embankments, Drainage, etc.; application of Chemistry to Agriculture; use of Implements; Breeding and Care of Stock; Dairy; Gardening; Fertilizers; Botany; Horticulture; Geology; Arboriculture; Exercises on the Farm, &c., &c.

LECTURES on Veterinary Medicine and Surgery, and on the relations of Agriculture to Commerce, Manufactures, Labor, &c.

ARCHITECTURE.—Drawing; Materials, Masonry, Carpentry, Foundations, Orders, etc.

LECTURES.

TEXT-BOOKS.

The Progressive Farmer, by J. A. Nash; Connection between Science and the Art of Practical Farming, by J. P. Norton; Chemical and Field Lectures, by James E. Leschemaker; Farmers' Guide, by H. Stephens and Prof. Norton; Farm and Fireside, by John L. Blake; Allen's American Farm Book; How Crops Grow; The Plough, the Loom and the Anvil, by J. S. Skinner & Sons; Youatt and Martin on the Horse, Cattle, &c.; Peter Henderson on Gardening for Profit; Architecture and Right Line Drawing, by Walter Smith.

Department of Chemistry and Natural History.

CHEMISTRY.—Organic and Inorganic Chemistry; Qualitative and Quantitative Analysis; Detection and Separation of the Elements; Manufacture and Application of Manures; Manufacture and Application of Chemicals; Blow Pipe; Organic, Volumetric, Microscopic and Spectroscopic Analysis; Chemistry applied to the Arts and Manufactures; Agricultural Chemistry; Toxicology.

NATURAL HISTORY AND SCIENCE.—Zoology; Mineralogy; Physiology; Metallurgy; Photography; Telegraphy and Printing.

TEXT-BOOKS.

CHEMISTRY.—Fownes', Fresnius', Steele's.
AGRICULTURAL CHEMISTRY.—Johnston's.
ZOOLOGY.—Nicholson's Text-Book.
MINERALOGY.—Dana's.
PHYSIOLOGY.—Flint's.
METALLURGY.—Percy's.
TELEGRAPHY.—Culley's.
SPECTRUM ANALYSIS.—Roscoe's.
MICROSCOPIC ANALYSIS.—Carpenter's.
VOLUMETRIC ANALYSIS.—Sutton's.
BLOW PIPE ANALYSIS.—Elderhorst's.
TOXICOLOGY.—Taylor's.

Department of Ancient and Modern Languages.

LATIN.—Grammar, Reader, Cæsar, Ovid, Virgil, Cicero, Horace, Sallust, Livy, Tacitus.

FRENCH.—Grammar, Reader, Classics, Colloquial Exercises.

GERMAN.—Grammar, Reader, Classics, Colloquial Exercises.

TEXT-BOOKS.

Fasquelle's Grammar; De Fivas' Grammar; Collotts' Dramatic French Reader; Erkmann-Chatrain's Le Conscrit; Ollendorf's German Course; Cæsar; Ovid; Cicero, &c., &c.

The Course of Instruction extends over four years, and the course for each year is as follows:

FRESHMAN CLASS.

SCHOOL OF ASTRONOMY, &c.—Physical Geography.

SCHOOL OF ENGLISH LITERATURE, &c.—English Lessons; Composition; Rhetoric; Outlines of History; Elocution; Book-keeping; History of England.

SCHOOL OF MATHEMATICS.—Algebra; Geometry; Plane Trigonometry; Mensuration.

SCHOOL OF PHYSICS, &c.—Elementary Natural Philosophy.

SCHOOL OF AGRICULTURE.—Botany; Exercises on the Farm.

SCHOOL OF CHEMISTRY.—Organic and Inorganic Chemistry; Zoology.

SCHOOL OF LANGUAGES.—Latin, (optional,) French or German.

SOPHOMORE CLASS.

SCHOOL OF ASTRONOMY, &c.—Field Surveying.

SCHOOL OF ENGLISH, &c —Rhetoric; Composition; Elocution; History of Greece; History of Rome.

SCHOOL OF MATHEMATICS.—Spherical Trigonometry; Descriptive Geometry; Analytical Geometry.

School of Physics, &c.—Todhunter's Mechanics for Beginners; Optics; Acoustics; Hydrostatics; Electricity and Magnetism.

School of Agriculture, &c.—Geology; Exercises on the Farm.

School of Chemistry, &c.—Qualitative Analysis; Detection and Separation of the Elements; Agricultural Chemistry; Manufacture and Application of Manures; Mineralogy.

School of Languages.—Latin, (optional,) French or German.

JUNIOR CLASS.

School of Astronomy, &c.—Practical Astronomy.

School of English Literature, &c.—Mental Philosophy; History of the English Language; History of English Literature; History of Civilization in Europe; Essays and Declamation.

School of Mathematics.—Shades, Shadows and Perspective.

School of Physics, &c.—Differential and Integral Calculus.

School of Agriculture, &c.—General Agriculture; Horticulture; Arboriculture; Landscape Gardening; Lectures on Veterinary Anatomy; Physiology and Surgery; Exercises on the Farm.

School of Chemistry, &c.—Qualitative and Quantitative Analysis; Organic Analysis; Blow Pipe Analysis; Manufacture and Application of Chemicals; Physiology; Metallury; Toxicology.

School of Languages.—Latin, (optional,) French or German.

SENIOR CLASS.

School of Astronomy, &c.—Civil Engineering.

School of English Literature, &c.—History of Philosophy; Moral Philosophy; Logic; Essays; Original Declamation.

School of Physics, &c.—Rankine's Applied Mathematics.

School of Agriculture, &c.—General Agriculture; Civil Engineering applied to Farm Roads, Bridges, &c., &c.; Architecture; Lectures on the relation of Agriculture to Commerce, Manufactures, &c.; Exercises on the Farm.

School of Chemistry, &c.—Chemistry applied to the Arts and Manufactures; Quantitative Analysis; Volumetric, Microscopic and Spectroscopic Analysis; Assays—Telegraphy; Photography.

School of Languages.—Latin, (optional,) French or German.

A Preparatory Freshman Class will be formed at the beginning of each Term, to which Students over 13 years of age will be admitted. The branches taught will be: *Arithmetic, Grammar, Geography, History of the United States, Spelling, Writing, Latin and French.*

In addition to the Course above mentioned, Lectures will be given monthly by distinguished non-resident Professors, on subjects relating to Agriculture.

Degrees.

I. The Degree of Bachelor of Arts will be conferred upon those who graduate in all the Schools.

II. The Degree of Bachelor of Science will be conferred upon those who graduate in the Schools of Astronomy and Civil Engineering, English Literature, Mathematics, Physics, Chemistry, and Languages.

III. Any student who shall have passed satisfactory examinations in the Schools of English, Mathematics, Agriculture, and Chemistry, will be declared a Graduate in Agriculture.

IV. The Degree of Master of Arts and Master of Science will be conferred upon those who take the Degrees of Bachelor of Arts and Bachelor of Science, and maintain for three years thereafter the character of a student.

Examinations.

Students are required to make daily recitations *at the blackboard* in all the branches taught.

The semi-annual examination is held (in the presence of the Faculty) in the last week of the first term.

The annual examination begins about June 15th, and ends about June 25th.

These examinations are both oral and written.

Marks.

The scale of marks for recitation and exercises ranges from 4 to 0. A mark of 4 indicates thoroughness; 0, a total failure; and the intermediate numbers shall, as far as possible, represent absolute values.

A mark of 2.5 represents the minimum of proficiency. Students whose final average for the term or year in any branch falls below that number, are liable to be turned back to the next class.

Merit-Rolls.

At every annual examination the Faculty will form a merit-roll of each class in the following manner:

The final average of each Student in each branch for which a coëfficient is assigned in the table of coëfficients, shall be multiplied by such coëfficient, and the sum of the products, after making the deduction for conduct, shall be the final multiple for the year.

The names of the Students will be arranged according to the final multiple, the highest multiple being placed first on the list, and the others in their order; but no class number will be assigned to any Student who has been found deficient.

Monthly Reports will be sent to parents and guardians showing the progress and standing of the Student.

The attention of parents is respectfully called to these Reports.

Vacation and Terms.

The Scholastic Year is divided into two terms. There will be but one regular vacation, beginning the last week of June, and closing about the middle of September. There will also be a short intermission at Christmas and Easter.

The first term will open on the 20th of September, and close with the month of January. The second term will

begin 1st of February, and end with the College year, the last of June.

When parents or guardians wish their children or wards to visit home, a letter to that effect should be addressed to the President.

Expenses.

PAYABLE IN ADVANCE.

For Students from the State of Maryland and District of Columbia:

First Term.—Board, Lights, Washing, use of Furniture and Room Rent, ...	$100 00
Matriculation Fee, ...	5 00
Total, ...	$105 00

Second Term.—Same as the first, less the Matriculation Fee.

For Non-residents of the State of Maryland and District of Columbia:

First Term.—Board, Tuition, &c.	$125 00
Matriculation Fee, ...	5 00
Total, ...	$130 00

Second Term.—Same as first, less the Matriculation Fee.

Students from the State of Maryland and District are received free of charge for tuition—they are allowed also the use of books; but it is recommended that they should purchase the same if in their power.

Day scholars will be charged two dollars a month for use of rooms, fuel, &c.

New students will be examined on entrance and assigned to proper classes.

Students having a constant fire in their rooms will be charged two dollars a month extra.

Early applications for admission are requested, and punctual attendance on the day of opening.

Pre-payment in every case will be required, unless satisfactory arrangement is made with the President of the Faculty for settlement by note at short date.

No deduction will be made for absence, except in case of protracted illness; nor will money be refunded in case a student be withdrawn or dismissed during the term, unless at the discretion of the President.

Special damages are assessed on those who unnecessarily injure or destroy College property.

Uniform and other Clothing.

As the Students are required to wear a prescribed uniform habitually, it is only necessary to bring a full supply of *under-clothing.* Arrangements are made with a competent Tailor who will supply the uniforms at the lowest prices. The cost of uniform, with cap complete, is $20. Each Student will require two suits for the year.

Students must bring a supply of towels, napkins, bed-linen and *white Berlin gloves,* and all articles of clothing must be marked.

Requisites for Admission, &c.

Students will be received at any point in the College Course for which they are qualified; but no Student will be permitted to begin the course who cannot pass a good examination in Reading, Writing, Arithmetic, Grammar, Geography, and History of the United States. All not so qualified will

be entered in the preparatory Freshman Class; provided they are thirteen years of age.

Students are required to bring testimonials of character from the schools they have attended, and certificates of vaccination.

Discipline.

The discipline of the College is conducted in accordance with the system of rules laid down in this Catalogue, and such others as the Faculty may from time to time prescribe, subject to the approval of the Board of Trustees; and it is expected that all Students will conform to these rules, and to the proper authority of the officers in enforcing them, so long as they remain connected with the Institution. For persistent infraction of the rules, or any conduct unbecoming a scholar or a gentleman, Students will be liable to suspension, expulsion, or a request addressed to the parent or guardian that they be withdrawn.

After the expiration of a term of suspension, the student may return to his class upon passing the necessary examination.

No student will be permitted to go on with his class, who fails to pass a satisfactory examination at the end of each term. When, however, the deficiency is slight, and arises from a cause not affecting his moral character, he will be allowed to proceed, upon condition of making up his deficiency and passing the requisite examination within a specified time.

Applications for admission, or for further information, should be addressed to the President of the Maryland Agricultural College, College Station, Prince George County, Maryland.

PART SECOND.

Interior Discipline & Organization.

Military Instruction.

For the purpose of military instruction, as required by law, the students are organized into companies (the number of companies depending on the number of students) on the basis of the infantry organization. The military course consists of daily drills, and occasional lectures on tactics and the composition and organization of armies. Military discipline will be strictly enforced, *and students will be required to appear in uniform at all times.*

Officer-in-Charge.

The Professors will in succession perform the duties of *Officer-in-Charge.*

The Officer-in-Charge will enforce all regulations, and use every effort to preserve good order and detect offences.

He will as far as possible attend all formations.

He will inspect Cadets' rooms at 12 Meridian and at other times at discretion.

Military etiquette will govern the exchange of salutations between a Cadet and his Professor at all times.

The Officer-in-Charge will inspect all parts of the College after "taps," guarding specially against fire.

No permission shall be granted to sit up after taps, or to burn lights, except in case of illness, or some extraordinary circumstance.

Officer of the Day.

At evening roll-call an Officer of the Company or Battalion will be detailed for duty as Officer of the Day, beginning on the day following at morning roll-call, and continuing twenty-four hours.

The Officer of the Day will wear a sword, sash and white gloves during his tour of duty, except while at meals.

He will receive and treat with courtesy all persons who may visit the College.

He will at all times enforce the regulations, and assist the officer in charge in the performance of his duties.

He will not attend drills or recitations during his tour of duty; but will be present at roll-calls and mess-formations; and he will superintend at section-formations, seek absentees not accounted for, order them to go to the proper room, and report all delinquencies. He may study the lessons of the day, but reading or writing for other purposes is forbidden.

He will keep the daily Journal and Order Book, and will cause the bells to be rung at the proper time.

He will keep the daily conduct-report in such form as the Commandant of Cadets may prescribe.

He will enter the names of all Cadets going on furlough, and note the time of going and returning.

He will not visit any of the Cadets' rooms except on duty.

He will not receive visits from the Cadets in his office.

He will see and report all lights extinguished at 10 P. M. except those of the Professors.

The Officer of the Day will receive and distribute the mail.

Orderlies of Rooms.

The Cadets occupying each room will alternate weekly as Orderly.

The Orderly will post his name in his room in such place and manner as the Commandant of Cadets may direct.

He will be responsible for the general cleanliness of the room, and of such furniture as is used by the occupants in common, and for the observance of regulations in the room.

He will be responsible for the preservation of all College property used in the room, and will see that the regulations about lights are obeyed.

Formations.

Upon the call to any formation, Cadets will assemble and fall in at the place designated, quietly and promptly.

All formations will be of a strictly military character.

During the reading of the conduct report, the battalion shall be brought to "parade rest."

Section Leaders.

The Cadet whose name stands first on the list of a section shall be the leader, and the next one shall be the second leader.

The section leader shall be responsible for, and report all irregularities in dress or conduct.

At the given signal, the leader shall form his section at the appointed place, in two ranks, in the order in which they stand on the list from right to left.

At the command, he shall call the roll of his section, and shall report all absentees to the Officer of the Day.

He shall march his section into the section room, preserving strict military discipline and silence. After the section has entered the room, the leader shall command "Seats!" and report absentees to the Professor. When dismissed, he shall give the order "Rise!" and "March out!" He shall then form his section as before, and march to the place designated for its dismissal, where he shall break ranks.

Section Rooms.

Cadets when reciting shall stand at attention or parade rest, modified as circumstances may require.

No Cadet shall leave the Section Room without the permission of the Professor, nor shall he ask for permission except in a case of necessity.

No Cadet except the leader and second leader shall bring a text-book to the formation or Section Room, unless specially ordered by the Professor. Section leaders shall be responsible for the enforcement of this rule.

Reports and Excuses.

Delinquencies shall be reported by the officers responsible for the conduct of Cadets.

Delinquencies at recitations, or at any other time within the knowledge of the Professors or Assistant Professors, shall be reported in writing to the President.

Excuses may be made either verbally or in writing to the Commandant of Cadets daily at 4 P. M.

All reports of absence from quarters at night must be explained by a written statement, whether an excuse is offered or not.

Cadets desiring a personal interview with the President will call at his Office at 11.50 A. M., or at 4 P. M.

Fire Brigade.

The Fire Brigade will include in its organization every person connected with the College and Farm.

Cadets will, at the fire alarm, proceed to their stations as designated in the fire-bill.

Exercise at fire-drill will take place at such time as the President may direct.

Bath Room.

Cadets shall bathe at least once a week.

Loitering and disorderly conduct in the bath-room or basement, are forbidden.

Daily Routine.

On Week Days.

7.00	A. M.	. . . . .	Bell rings to rise.
7.30	"	. . . . .	" " Prayers and Breakfast.
8.00	"	. . . . .	" " Sick Call.
8.15	"	. . . . .	" " First Recitation.
9.00	"	. . . . .	" " Second "
10.00	"	. . . . .	" " Third "
11.00	"	. . . . .	" " Fourth "
11.50	"	. . . . .	" " Close of A. M. Recitaions.
12.00	"	. . . . .	" " Military Exercises.
12.40	P. M.	. . . . .	" " Preparatory—Dinner.
1.00	"	. . . . .	" " Dinner.
2.00	"	. . . . .	" " First P. M. Recitation.
3.00	"	. . . . .	" " Second " "
4.00	"	. . . . .	" " Close of Exercises.
5.30	"	. . . . .	" " Preparatory—Supper.
6.00	"	. . . . .	" " Supper.
7.00	"	. . . . .	" " Call to Study.
9.30	"	. . . . .	" " Close of Study Hours.
9.50	"	. . . . .	" " Roll Call.
10.00	"	. . . . .	Taps—Lights out.

On Sunday.

7.30	A. M.	. . . . .	Bell rings to Rise.
8.00	"	. . . . .	" " Prayers and Breakfast.
9.00	"	. . . . .	" " Sick Call.
10.30	"	. . . . .	" " Inspection.
12.30	P. M.	. . . . .	" " Preparatory—Dinner.
1.00	"	. . . . .	" " Dinner.
5.30	"	. . . . .	" " Preparatory—Supper.
6.00	"	. . . . .	" " Supper.
7.00	"	. . . . .	" " Divine Service.
9.50	"	. . . . .	" " Roll Call.
10.00	"	. . . . .	Taps—Lights out.

Cadets shall rise promptly at 7 A. M., dress without delay, and arrange their rooms in such manner as may be prescribed by the Commandant of Cadets.

The daily report of delinquences, involving demerits, shall be read at evening roll-call.

An inspection-parade shall take place every Sunday at 10.30 A. M.; and the President and Faculty will inspect the entire College building at the same time.

Religious Service.

Prayers will be read by the Professor of English daily, immediately after breakfast-call, and Divine Service will be held on Sunday by the Rev. Mr. Williams of the Protestant Episcopal Church.

The attendance of Cadets will be required unless their parents make a written request to the contrary.

Cadets shall observe the Lord's Day with proper decorum.

Infirmary.

Lists of Cadets unfitted for duty by illness will be sent daily from the Infirmary to the Commandant of Cadets. The sick-list shall contain the names of Cadets excused from all recitations, drills and formations.

No Cadet will be excused from duty unless his name is put on the list by the proper officer.

Cadets excused from drill will be required to remain in their rooms while the drill is taking place.

Cadet's Quarters.

The rooms of the Cadets will be inspected daily at noon, by the Officer-in-Charge; and on Sunday by the President and Faculty.

Cadets will rise and stand at "attention" while their rooms are being inspected.

Cadets will have their clothes and lists ready for the laundress at 7 A. M. on Monday.

Furniture, &c., must be arranged as the Commandant of Cadets may prescribe.

Mess-Hall.

The Commandant of Cadets will inspect the Mess-Hall daily.

The Officer-in-Charge will preside at meals.

When the Cadets have entered the hall before a meal, the Senior Captain shall give the order, "Seats!"

Thirty minutes will be allowed for breakfast and for supper, and forty minutes for dinner. At the end of this time, the Captain will give the order, "Rise!" the companies will be marched from the hall, and the doors shall be closed.

No Cadet shall leave the Mess-Hall without permission.

Complaints in regard to the Mess may be made to the President of the Faculty.

Additional Regulations.

1. Students shall be subject to the laws and government of the College, and show in speech and behavior all proper tokens of respect and obedience to the Faculty; and are expected to conduct themselves, on every occasion, with the propriety and decorum which characterize the society of gentlemen.

2. Students shall observe order in their rooms, as well as in every part of the College buildings and grounds. Loud talking, scuffling, boisterous behavior, throwing water or stones, or unnecessary noise of any kind, is strictly prohibited at all hours, in any portion of the building.

3. If any student is known to indulge in habits injurious to the morals of the College, or calculated to destroy the established order, he will be immediately dismissed.

4. Any student who shall be intoxicated, or shall use, or bring within the College grounds, or have in his room, any spirituous, vinous, fermented, or other intoxicating drinks, shall, for the first offence, receive such punishment as may be inflicted by the Faculty; but for a second offence of a similar kind, shall be dismissed from the Institution.

5. Gambling and card-playing of every description is strictly prohibited, and will be punished in the discretion of the Faculty.

6. Profane, obscene, or vulgar language or conduct, is strictly prohibited, and will be punished by the Faculty.

7. No student shall absent himself from the College farm without first obtaining the permission of the President.

8. Students are not to join any convivial club or other association, nor shall any general meeting be called by them for any purpose, without the express permission of the President.

9. No fire-arms or fire-works of any description, or gunpowder in any form, shall be introduced by any student within the walls of the College; nor shall the same be used by any person within the inclosure of the College farm, without the sanction of the President.

10. All persons are strictly forbidden to cut, mark, or in any manner deface or injure the walls, buildings, porches, or public property of any kind. Any one so offending will be required to make good such damage or injury, and be otherwise punished, as the case may require.

11. Students are not to congregate, for social or other purposes, in the hall, nor sit on the stairs or front steps, nor *lounge* or *stand* on the *porch* or *grounds* in *front of the College*. They are also forbidden to *smoke* in the *halls* or on the *front porch*, or to *play* or *smoke* on the *grounds in front of the buildings*. They are also required to leave the Hall immediately after roll-call, and are not allowed to use the *south* stairs of the College at any time.

12. Study hours, except on Saturday and Sunday, are from 8¼ A. M. to 12 M., from 2 to 4 P. M., and from 7 to 10 P. M. During these hours students must be quiet and stay within the building. Visiting from room to room during study hours is forbidden, unless by express permission of the President, or, in his absence, by some member of the Faculty, or military officer. And in going to and from the recitation and their own rooms, students must *walk* in an orderly manner. Loud talking, whistling, or noise of any kind in the rooms or halls, or *running* up or down stairs, is *strictly forbidden*.

13. On Saturday, and *especially* on Sunday, the same quiet order shall be maintained in the rooms and halls as on other days. But this rule shall not be construed to forbid students

visiting each others' rooms, provided that not more than two visitors shall be in any room at a time.

14. No student shall resort to the kitchen or visit the dining-room, (except during meal hours,) without special permission of the President or some member of the Faculty.

15. Tasks or other punishments may be inflicted for absence from prayers, meal-rolls, from church, or absence from class, without permission *previously* obtained.

16. The student's room shall be subject to inspection at any and at all hours. Want of neatness, &c., shall be punished as the President may determine.

17. In proceeding to meals, and while at the table, every one is expected to conduct himself with gentlemanly propriety. Noisy conversation, loud calling to servants, or rattling of dishes, &c., will not be allowed.

18. Those who wilfully disregard the letter and spirit of the rules of the College are punished with demerits. When the demerit marks of any student reach 50 in number he will be warned by the President in private: when his demerits reach 100 the President will again warn him, and advise his guardian of such action, with the reason therefor: for 200 demerits he shall be requested to *withdraw* from the Institution.

19. In matriculating, each student is furnished with a copy of the Rules, and is understood as pledging himself to obey them.

20. The Faculty and military officers are required to report all students who violate the Rules or any regulations of the College.

21. No Cadet shall address a Professor on the subject of marks without permission from the President of the Faculty.

Remarks.

At the commencement of the coming Session, 1876–77, the MARYLAND AGRICULTURAL COLLEGE will be almost *free of debt*. The Trustees having deemed it expedient to increase and reörganize the Faculty and reconstruct the course of study, so as to adapt the College more fully to the present wants and requirements of the State, there will be henceforth:

1. A Chair of Civil Engineering and Astronomy.
2. A Chair of English Literature, Mental and Moral Philosophy, and History.
3. A Chair of Mathematics.
4. A Chair of Physics and Applied Mathematics.
5. A Chair of Agriculture, Architecture and Drawing.
6. A Chair of Chemistry and Natural History.
7. A Chair of Ancient and Modern Languages.

This institution, as will be seen from its extensive and varied "course of study," supplies a manifest want of the community. Those who have both *time* and *means* for a thorough collegiate course will find here all the requisite facilities for securing that end. Others whose circumstances are different are not required to pursue studies that have no immediate and direct reference to the active business duties of the future towards which they are looking. All such are provided with thorough instruction in those branches which more particularly relate to the chosen vocation.

Each student will be required to pursue in regular order one of the courses of study prescribed by the Board of Trustees.

All the text-books of the course are furnished at the College at stationers' rates. Beneficiary students have use of them free of cost, except in case of loss or damage.

Farmers in the State desiring an analysis of Soils or Fertilizers, are requested to send specimens to the Professor of Chemistry. The work will be done without charge.

Calendar 1876-77.

1876.

June 25—Baccalaureate Sermon,
By Rev. Dr. GRAMMER, *of Maryland.*

June 27—Commencement Day:
Address to the Graduating Class,
By Hon. Z. B. VANCE, *of North Carolina.*

June 28—Session Closes.

September 20—Session Commences.

December 21—Christmas Holiday of Thirteen Days.

1877.

January 31—Close of First Term.

February 1—Second Term Begins.

June 24—Baccalaureate Sermon.

June 26—Commencement Day.